

METHODS AND APPARATUS FOR POWER ALLOCATION ON A REVERSE LINK POWER CONTROL CHANNEL OF A COMMUNICATION SYSTEM

ABSTRACT

A method and apparatus that determines how much power to allocate to each of a plurality of reverse link power control (RLPC) Channels to be transmitted from a base station, based upon data rate control (DRC) messages transmitted to the base station. Historical information is used to determine the quality of the Forward Link over which the RLPC is to be transmitted. If the history of the DRCs received indicates that the remote station to which the RLPC Channel is to be directed has not transmitted a DRC recently, then the base station allocates power to the RLPC Channels based upon information provided to the base station in DRCs that were received by the base station, but that were directed to other base stations. Accordingly, the base station can allocate power among the RLPC Channels without having received explicit information as to the quality of the Forward Link between the base station and every remote station intended to receive the information on the RLPC Channels.